## SEQUENCE LISTING

<110>	Herrma Lu, Al McCuto Presna Wong,	lber chen ail,	t L. , Bil Jame	lly I											
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Phe I	ta ttg le Leu 5														105
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	aa aac ys Asn	_		_	_			_			_			_	201
	ga tat ly Tyr														249
cct g	at gat	aca	aat	aca	aaa	atg	aat	ccc	ttt	tgt	cag	ggt	ttg	gat	297

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ggt ttg gat ggg taa Gly Leu Asp Gly \* 255

<210> 4

<211> 64

<212> PRT

<213> Centruroides vittatus

<400> 4

Lys Lys Asp Gly Tyr Pro Val Asp Ala Glu Glu Cys Arg Tyr Asn Cys
1 5 10 15

Trp Lys Asn Glu Tyr Cys Asp Lys Ile Cys Lys Glu Lys Lys Gly Glu 20 25 30

Ser Gly Tyr Cys Tyr Gly Trp Asn Leu Ser Cys Trp Cys Ile Gly Leu 35 40 45

Pro Asp Asp Thr Asn Thr Lys Met Asn Pro Phe Cys Gln Gly Leu Asp 50 55 60

<210> 5

<211> 267

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<213> Artificial Sequence

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<221> sig\_peptide

<222> (1)...(72)

<223> BAA signal peptide

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Met Ala Asn Lys His Leu Ser Leu Ser Leu Phe Leu Val Leu Leu Gly
-20 -15 -10

ctg tcg gcg tct tta gct tca ggg aag aaa gac ggc tac ccg gtg gat 96 Leu Ser Ala Ser Leu Ala Ser Gly Lys Lys Asp Gly Tyr Pro Val Asp -5 1 5

gcc gag gaa tgc cgc tat aac tgt tgg aag aat gag tac tgc gac aag 144
Ala Glu Glu Cys Arg Tyr Asn Cys Trp Lys Asn Glu Tyr Cys Asp Lys
10 15 20

atc tgc aag gag aaa aag ggg gaa tcc gga tac tgt tat ggc tgg aac 192 Ile Cys Lys Glu Lys Lys Gly Glu Ser Gly Tyr Cys Tyr Gly Trp Asn 25 30 35 40

ctc agc tgc tgg tgc att ggc ctg ccc gat gac acc aat acg aag atg 240

Leu Ser Cys Trp Cys Ile Gly Leu Pro Asp Asp Thr Asn Thr Lys Met 45 50 55	:												
aac cca ttc tgc cag ggg ctt gat tga Asn Pro Phe Cys Gln Gly Leu Asp * 60	267												
<210> 6 <211> 375 <212> DNA <213> Leiurus quinquestriatus													
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1 5	_												
att agt ttg gct ctt ctt cta atg aca ggt gtg gag agc ggt gta cgt Ile Ser Leu Ala Leu Leu Met Thr Gly Val Glu Ser Gly Val Arg 10 15 20	103												
att agt ttg gct ctt ctt cta atg aca ggt gtg gag agc ggt gta cgt Ile Ser Leu Ala Leu Leu Met Thr Gly Val Glu Ser Gly Val Arg	103 1												
att agt ttg gct ctt ctt cta atg aca ggt gtg gag agc ggt gta cgt Ile Ser Leu Ala Leu Leu Leu Met Thr Gly Val Glu Ser Gly Val Arg 10 15 20  gat gct tat att gcc gac gat aaa aac tgt gtg tac act tgt ggt gca Asp Ala Tyr Ile Ala Asp Asp Lys Asn Cys Val Tyr Thr Cys Gly Ala	103 1 151 2 199												
att agt ttg gct ctt ctt cta atg aca ggt gtg gag agc ggt gta cgt lle Ser Leu Ala Leu Leu Leu Met Thr Gly Val Glu Ser Gly Val Arg 20  gat gct tat att gcc gac gat aaa aac tgt gtg tac act tgt ggt ggt ggt ggt gca Asp Ala Tyr Ile Ala Asp Asp Lys Asn Cys Val Tyr Thr Cys Gly Ala at tca tat tgc aac aca gaa tgt acc aag aac ggt gct gag agt ggc Asn Ser Tyr Cys Asn Thr Glu Cys Thr Lys Asn Gly Ala Glu Ser Gly	103 151 199												
att agt ttg gct ctt ctt cta atg aca ggt gtg gag agc ggt gta cgt lle Ser Leu Ala Leu Leu Leu Met Thr Gly Val Glu Ser Gly Val Arg 20  gat gct tat att gcc gac gat aaa aac tgt gtg tac act tgt ggt ggt ggt ggt ggt gag agc Asp Ala Tyr Ile Ala Asp Asp Lys Asn Cys Val Tyr Thr Cys Gly Ala Ser Gly Ala Ser Gly Ala Ser Tyr Cys Asn Thr Glu Cys Thr Lys Asn Gly Ala Glu Ser Gly Ala Tyr Cys Gly Ash Tyr Cys Asn Thr Glu Cys Thr Lys Asn Gly Ala Glu Ser Gly Ala tgt tgt caa tgg ttt ggt aaa tat gga aat gcc tgc tgg tgc ata aag Tyr Cys Gln Trp Phe Gly Lys Tyr Gly Asn Ala Cys Trp Cys Ile Lys	103 151 199 247												
att agt ttg gct ctt ctt cta atg aca ggt gtg gag agc ggt gta cgt Ile Ser Leu Ala Leu Leu Leu Met Thr Gly Val Glu Ser Gly Val Arg gat gct tat att gcc gac gat aaa ac tgt gtg tac act tgt ggt gcc Asp Ala Tyr Ile Ala Asp Asp Lys Asn Cys Val Tyr Thr Cys Gly Ala aat tca tat tgc aac aca gaa tgt acc aag aac ggt gct gag agt ggc Asn Ser Tyr Cys Asn Thr Glu Cys Thr Lys Asn Gly Ala Glu Ser Gly 40  tat tgt caa tgg ttt ggt aaa tat gga aat gcc tgc tgg tgc ata aag Tyr Cys Gln Trp Phe Gly Lys Tyr Gly Asn Ala Cys Trp Cys Ile Lys 55  ttg ccc gat aaa gta cct att aga ata cca gga aag tgc cgt ggc ggc Leu Pro Asp Lys Val Pro Ile Arg Ile Pro Gly Lys Cys Arg Gly Arg	103 151 199 247												

<210> 7

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<213> Leiurus quinquestriatus
<400> 7
Met Asn Tyr Leu Met Ile Ile Ser Leu Ala Leu Leu Met Thr Gly
                                    10
Val Glu Ser Gly Val Arg Asp Ala Tyr Ile Ala Asp Asp Lys Asn Cys
                                25
Val Tyr Thr Cys Gly Ala Asn Ser Tyr Cys Asn Thr Glu Cys Thr Lys
                            40
Asn Gly Ala Glu Ser Gly Tyr Cys Gln Trp Phe Gly Lys Tyr Gly Asn
                        55
                                            60
Ala Cys Trp Cys Ile Lys Leu Pro Asp Lys Val Pro Ile Arg Ile Pro
Gly Lys Cys Arg Gly Arg
                85
<210> 8
<211> 261
<212> DNA
<213> Leiurus quinquestriatus
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<221> CDS
<222> (1)...(261)
<221> misc feature
<222> (0)...(0)
<223> LghIV
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                                                                   48
Met Asn Tyr Leu Met Ile Ile Ser Leu Ala Leu Leu Met Thr Gly
                 5
gtg gag agc ggt gta cgt gat gct tat att gcc gac gat aaa aac tgt
                                                                   96
Val Glu Ser Gly Val Arg Asp Ala Tyr Ile Ala Asp Asp Lys Asn Cys
                                 25
gtg tac act tgt ggt gca aat tca tat tgc aac aca gaa tgt acc aag
                                                                   144
Val Tyr Thr Cys Gly Ala Asn Ser Tyr Cys Asn Thr Glu Cys Thr Lys
aac ggt gct gag agt ggc tat tgt caa tgg ttt ggt aaa tat gga aat
                                                                   192
Asn Gly Ala Glu Ser Gly Tyr Cys Gln Trp Phe Gly Lys Tyr Gly Asn
     50
gcc tgc tgg tgc ata aag ttg ccc gat aaa gta cct att aga ata cca
                                                                   240
Ala Cys Trp Cys Ile Lys Leu Pro Asp Lys Val Pro Ile Arg Ile Pro
 65
                     70
gga aag tgc cgt ggc cga taa
                                                                   261
Gly Lys Cys Arg Gly Arg *
```

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<210> 9
<211> 483
<212> DNA
<213> Vaejovis carolinanus
<220>
<221> CDS
<222> (65)...(358)
<221> misc feature
<222> (0)...(0)
<223> VC1
<400> 9
gccgctctag aactagtgga tcccccgggc tgcaggtttc tccgtttgga taatcgtcta 60
gaaa atg aac gct aaa ata act gtt cta ttt ttc ctc gta gcc att aca 109
     Met Asn Ala Lys Ile Thr Val Leu Phe Phe Leu Val Ala Ile Thr
      1
                      5
att gct tct tgt gcc tgg ata agt gag aaa aaa gtt caa gat gtc att
                                                                  157
Ile Ala Ser Cys Ala Trp Ile Ser Glu Lys Lys Val Gln Asp Val Ile
gat aaa aaa ttg cca aac gga atg gtg aag aat gca atc aaa gcc gta
                                                                  205
Asp Lys Lys Leu Pro Asn Gly Met Val Lys Asn Ala Ile Lys Ala Val
gta cac aaa gca gcg aag aat aag cac ggc tgt ttt gct gat ttt gat
                                                                  253
Val His Lys Ala Ala Lys Asn Lys His Gly Cys Phe Ala Asp Phe Asp
         50
                             55
                                                                  301
gta gga gga tgc gaa cag cac tgc cag aaa acg gaa agt aaa gca
Val Gly Gly Cys Glu Gln His Cys Gln Lys Thr Glu Ser Lys Ala
gga atc tgt cac gga acc aaa tgc aaa tgc ggt att ccc cgt gcc tat
                                                                  349
Gly Ile Cys His Gly Thr Lys Cys Lys Cys Gly Ile Pro Arg Ala Tyr
80
aaa aaa taa atcactgatt aatgctaacg gtgaatacat ataatatttc
                                                                  398
Lys Lys *
tatccaagct ttagtcaaaa ataataaaat gaattatttg cacacttaca ttctatgtaa 458
tatacacaaa ataaatcgaa tttgg
                                                                   483
<210> 10
<211> 97
<212> PRT
<213> Vaejovis carolinanus
<400> 10
Met Asn Ala Lys Ile Thr Val Leu Phe Phe Leu Val Ala Ile Thr Ile
                                    10
Ala Ser Cys Ala Trp Ile Ser Glu Lys Lys Val Gln Asp Val Ile Asp
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<210> 11 <211> 294 <212> DNA

<213> Vaejovis carolinanus

<220> <221> CDS

<222> (1)...(294)

<221> misc\_feature <222> (0)...(0)

<223> VC1

<400> 11

atg aac gct aaa ata act gtt cta ttt ttc ctc gta gcc att aca att 48
Met Asn Ala Lys Ile Thr Val Leu Phe Phe Leu Val Ala Ile Thr Ile
1 5 10 15

gct tct tgt gcc tgg ata agt gag aaa aaa gtt caa gat gtc att gat 96 Ala Ser Cys Ala Trp Ile Ser Glu Lys Lys Val Gln Asp Val Ile Asp 20 25 30

aaa aaa ttg cca aac gga atg gtg aag aat gca atc aaa gcc gta gta 144 Lys Lys Leu Pro Asn Gly Met Val Lys Asn Ala Ile Lys Ala Val Val 35 40 45

cac aaa gca gcg aag aat aag cac ggc tgt ttt gct gat ttt gat gta 192 His Lys Ala Ala Lys Asn Lys His Gly Cys Phe Ala Asp Phe Asp Val 50 55 60

gga gga gga tgc gaa cag cac tgc cag aaa acg gaa agt aaa gca gga 240 Gly Gly Gly Cys Glu Gln His Cys Gln Lys Thr Glu Ser Lys Ala Gly 65 70 75 80

atc tgt cac gga acc aaa tgc aaa tgc ggt att ccc cgt gcc tat aaa 288

Ile Cys His Gly Thr Lys Cys Lys Cys Gly Ile Pro Arg Ala Tyr Lys

85 90 95

aaa taa 294 Lys \*

<210> 12 <211> 312

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<212> DNA
<213> Artificial Sequence
<220>
<221> CDS
<222> (76)...(312)
<221> sig peptide
<222> (1)...(75)
<223> PR1 signal peptide
<223> Codon biased nucleotide sequence encoding VC1.
      Codon biased for rice.
<400> 12
atg aac ttc ctc aag tcc ttt ccg ttc tac gcc ttc ctg tgc ttt ggc
                                                                   48
Met Asn Phe Leu Lys Ser Phe Pro Phe Tyr Ala Phe Leu Cys Phe Gly
cag tat ttc gtg gcg gtc acc cac gct gcc tgg atc tcc gag aag aaa
                                                                   96
Gln Tyr Phe Val Ala Val Thr His Ala Ala Trp Ile Ser Glu Lys Lys
                 -5
gtg cag gac gtc att gat aag aag ctc ccg aac ggc atg gtt aag aat
                                                                   144
Val Gln Asp Val Ile Asp Lys Lys Leu Pro Asn Gly Met Val Lys Asn
         10
gcg ata aaa gct gta gtg cac aag gca gcc aag aac aag cat ggg tgc
Ala Ile Lys Ala Val Val His Lys Ala Ala Lys Asn Lys His Gly Cys
     25
                         30
ttc gcg gac ttt gat gtc gga ggc ggc tgt gaa caa cac tgc cag aaa
                                                                   240
Phe Ala Asp Phe Asp Val Gly Gly Cys Glu Gln His Cys Gln Lys
 40
                     45
acc gag agc aag gct ggg atc tgc cat gga acg aag tgt aag tgc ggc
                                                                   288
Thr Glu Ser Lys Ala Gly Ile Cys His Gly Thr Lys Cys Lys Cys Gly
atc ccc cgc gcc tac aaa aag tag
                                                                   312
Ile Pro Arg Ala Tyr Lys Lys *
             75
<210> 13
<211> 103
<212> PRT
<213> Artificial Sequence
<220>
<223> PR1 signal peptide linked to VC1
<400> 13
Met Asn Phe Leu Lys Ser Phe Pro Phe Tyr Ala Phe Leu Cys Phe Gly
                                    10
Gln Tyr Phe Val Ala Val Thr His Ala Ala Trp Ile Ser Glu Lys Lys
```

25

 Val
 Gln
 Asp
 Val
 Ile
 Asp
 Lys
 Leu
 Pro
 Asn
 Gly
 Met
 Val
 Lys
 Asn
 Asn
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<213> Artificial Sequence

<220>

<223> Codon biased nucleotide sequence encoding Aaml. Codon biased rice.

<221> CDS <222> (64)...(240)

<221> sig\_peptide <222> (1)...(63)

<223> Sweet potato sporamin signal

<400> 14

atg aag gcc ttc acc ctc gcg ctg ttt ctc gct ctc tcc ttg tat ctt 48 Met Lys Ala Phe Thr Leu Ala Leu Phe Leu Ala Leu Ser Leu Tyr Leu
-20 -15 -10

ctc ccc aac cca gcg gct gac gtc ccg gga aac tac cca ctt gat tct 96 Leu Pro Asn Pro Ala Ala Asp Val Pro Gly Asn Tyr Pro Leu Asp Ser -5 1 5 10

tcc gac aat acc tac ctg tgc gcc cct ttg gga gat aat ccg gac tgc 144 Ser Asp Asn Thr Tyr Leu Cys Ala Pro Leu Gly Asp Asn Pro Asp Cys 15 20 25

att aag atc tgt cag aaa cac ggt gtg gat tac ggg tat tgc tac gcc 192
Ile Lys Ile Cys Gln Lys His Gly Val Asp Tyr Gly Tyr Cys Tyr Ala
30 40

ttc caa tgc tgg tgt gaa ttt ctg aag gat gag aac gtg aag gtc tga 240 Phe Gln Cys Trp Cys Glu Phe Leu Lys Asp Glu Asn Val Lys Val \* 45 50 55

<210> 15

<211> 79

<212> PRT

<213> Artificial Sequence

<220>

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<222> (1) ... (21)
<223> Codon biased nucleotide sequence encoding Aam1.
      Codon biased to rice.
<400> 15
Met Lys Ala Phe Thr Leu Ala Leu Phe Leu Ala Leu Ser Leu Tyr Leu
    -20
                        -15
Leu Pro Asn Pro Ala Ala Asp Val Pro Gly Asn Tyr Pro Leu Asp Ser
Ser Asp Asn Thr Tyr Leu Cys Ala Pro Leu Gly Asp Asn Pro Asp Cys
Ile Lys Ile Cys Gln Lys His Gly Val Asp Tyr Gly Tyr Cys Tyr Ala
Phe Gln Cys Trp Cys Glu Phe Leu Lys Asp Glu Asn Val Lys Val
<210> 16
<211> 79
<212> PRT
<213> Artificial Sequence
<223> SPAam1 sporamin signal and Aam1
<221> SIGNAL
<222> (1)...(21)
<400> 16
Met Lys Ala Phe Thr Leu Ala Leu Phe Leu Ala Leu Ser Leu Tyr Leu
                        -15
Leu Pro Asn Pro Ala Ala Asp Val Pro Gly Asn Tyr Pro Leu Asp Ser
Ser Asp Asn Thr Tyr Leu Cys Ala Pro Leu Gly Asp Asn Pro Asp Cys
            15
                                20
Ile Lys Ile Cys Gln Lys His Gly Val Asp Tyr Gly Tyr Cys Tyr Ala
                            35
Phe Gln Cys Trp Cys Glu Phe Leu Lys Asp Glu Asn Val Lys Val
<210> 17
<211> 249
<212> DNA
<213> Artificial Sequence
<220>
<223> Codon biased nucleotide sequence encoding Aam1.
      Codon biased to Streptomyces coelicolor.
<221> CDS
<222> (73)...(249)
<221> sig_peptide
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<222> (1)...(72)

## <223> BAA signal pentide

(223) BAA Bighai peptide															
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_	-		_		_		ctg Leu	_			_	_			48
							ggt Gly								96
							tac Tyr								144
							cag Gln								192
							tgc Cys								240
aag Lys	gtg Val	tga *													249
<210> 18 <211> 82 <212> PRT <213> Artificial Sequence															
<220> <221> SIGNAL <222> (1)(24)															
<223	<223> Codon biased nucleotide sequence encoding Aam1. Codon biased to Streptomyces coelicolor.														
<400	> 18	3													

25 30 35 40 Cys Tyr Ala Phe Gln Cys Trp Cys Glu Phe Leu Lys Asp Glu Asn Val 45 50 55

Lys Val

<210> 19 <211> 82

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<220>
<223> BAAAam1 BAA signal and Aam1
<221> SIGNAL
<222> (1)...(24)
<223> BAA signal peptide
<400> 19
Met Ala Asn Lys His Leu Ser Leu Ser Leu Phe Leu Val Leu Leu Gly
                -20
                                    -15
Leu Ser Ala Ser Leu Ala Ser Gly Ala Asp Val Pro Gly Asn Tyr Pro
                                 1
Leu Asp Ser Ser Asp Asn Thr Tyr Leu Cys Ala Pro Leu Gly Asp Asn
                        15
Pro Asp Cys Ile Lys Ile Cys Gln Lys His Gly Val Asp Tyr Gly Tyr
Cys Tyr Ala Phe Gln Cys Trp Cys Glu Phe Leu Lys Asp Glu Asn Val
Lys Val
<210> 20
<211> 58
<212> PRT
<213> Androctonus amoreuxi
<400> 20
Ala Asp Val Pro Gly Asn Tyr Pro Leu Asp Ser Ser Asp Asn Thr Tyr
Leu Cys Ala Pro Leu Gly Asp Asn Pro Asp Cys Ile Lys Ile Cys Gln
                                25
Lys His Gly Val Asp Tyr Gly Tyr Cys Tyr Ala Phe Gln Cys Trp Cys
Glu Phe Leu Lys Asp Glu Asn Val Lys Val
<210> 21
<211> 479
<212> DNA
<213> Centruroides vittatus
<220>
<221> CDS
<222> (117)...(359)
<221> misc_feature
<222> (0)...(0)
<223> Ts7
<221> misc_feature
<222> 425, 431, 469
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<223> n = A, T, C or G

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ggccgctcta gaactagtgg atcccccggg ctgcaggaat tcggcacgag acattttacc 60
ataacggtaa aaacgtttct attaatactt tctttagtga aaaaaaactt gaaagt atg 119
                                                               Met
                                                                1
aaa ttc ttc cta att gtg tca ttg gca ata atg tcg tgt ttc atg gaa
                                                                   167
Lys Phe Phe Leu Ile Val Ser Leu Ala Ile Met Ser Cys Phe Met Glu
atg aaa gaa gta tac gca ggt acg aaa gga aat ttt ccc gtc gat ttt
                                                                   215
Met Lys Glu Val Tyr Ala Gly Thr Lys Gly Asn Phe Pro Val Asp Phe
caa gga ata ttt tac gaa tgc atc gta tac aat aga tgt gaa cgc gac
                                                                   263
Gln Gly Ile Phe Tyr Glu Cys Ile Val Tyr Asn Arg Cys Glu Arg Asp
tgc aag tta cat gga tcg agt tat ggc tat tgc tac gct gga gtt tgc
                                                                   311
Cys Lys Leu His Gly Ser Ser Tyr Gly Tyr Cys Tyr Ala Gly Val Cys
50
                     55
tac tgc gaa ggt tta gct gac gaa gat aaa tat ttc ctg gga atg taa
                                                                   359
Tyr Cys Glu Gly Leu Ala Asp Glu Asp Lys Tyr Phe Leu Gly Met
                 70
tgaaaaaaca atgccgatta aatgtaaaat caatatcgtt attgccctac aataagcgat 419
taatcntttt gngagattaa ccttgggaat aatggttacc taaaaaactn gggaataaaa 479
<210> 22
<211> 80
<212> PRT
<213> Centruroides vittatus
<400> 22
Met Lys Phe Phe Leu Ile Val Ser Leu Ala Ile Met Ser Cys Phe Met
Glu Met Lys Glu Val Tyr Ala Gly Thr Lys Gly Asn Phe Pro Val Asp
Phe Gln Gly Ile Phe Tyr Glu Cys Ile Val Tyr Asn Arg Cys Glu Arg
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<210> 23

<211> 243

<212> DNA

<213> Centruriodes vittatus

<400> 23

atgaaattet teetaattgt gteattggea ataatgtegt gttteatgga aatgaaagaa 60 gtataegeag gtaegaaagg aaatttteee gtegatttte aaggaatatt ttaegaatge 120

Asp Cys Lys Leu His Gly Ser Ser Tyr Gly Tyr Cys Tyr Ala Gly Val

Cys Tyr Cys Glu Gly Leu Ala Asp Glu Asp Lys Tyr Phe Leu Gly Met

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tacgctggag tttgctactg cgaaggttta gctgacgaag ataaatattt cctgggaatg 240
<210> 24
<211> 57
<212> PRT
<213> Centruroides vittatus
<400> 24
Gly Thr Lys Gly Asn Phe Pro Val Asp Phe Gln Gly Ile Phe Tyr Glu
Cys Ile Val Tyr Asn Arg Cys Glu Arg Asp Cys Lys Leu His Gly Ser
                               25
           20
Ser Tyr Gly Tyr Cys Tyr Ala Gly Val Cys Tyr Cys Glu Gly Leu Ala
Asp Glu Asp Lys Tyr Phe Leu Gly Met
   50
                       55
<210> 25
<211> 292
<212> DNA
<213> Artificial Sequence
<220>
<223> Codon biased nucleotide sequence encoding Ts7.
     Codon biased to Streptomyces coelicolor.
<221> CDS
<222> (73)...(292)
<221> sig peptide
<222> (1)...(72)
<223> BAA signal sequence
<400> 25
Met Ala Asn Lys His Leu Ser Leu Ser Leu Phe Leu Val Leu Leu Gly
               -20
                                   -15
ctg tcg gcg agc ctc gcc tcc qqc qqq acc aaq qqc aac ttc ccq qtc
Leu Ser Ala Ser Leu Ala Ser Gly Gly Thr Lys Gly Asn Phe Pro Val
            -5
gac ttc cag ggt atc ttc tac gag tgc atc gtg tac aac cgc tgc gag
                                                                144
Asp Phe Gln Gly Ile Phe Tyr Glu Cys Ile Val Tyr Asn Arg Cys Glu
    10
                        15
egg gae tgt aag etg eac gge age tee tae gge tae tge tae gee gge
                                                                192
Arg Asp Cys Lys Leu His Gly Ser Ser Tyr Gly Tyr Cys Tyr Ala Gly
25
                    30
                                        35
                                                           40
gtg tgc tac tgc gag ggg ctc gcc gac gaa gac aag tac ttc ctg gga
Val Cys Tyr Cys Glu Gly Leu Ala Asp Glu Asp Lys Tyr Phe Leu Gly
```

atcqtataca ataqatqtqa acqcqactqc aaqttacatg gatcgagtta tggctattgc 180

```
atg taa gac gct ccc cga gcg gct gct tct gtt cat gaa gga ccc tta
Met * Asp Ala Pro Arg Ala Ala Ala Ser Val His Glu Gly Pro Leu
                 60
                                     65
cat t
                                                                   292
His
<210> 26
<211> 81
<212> PRT
<213> Artificial Sequence
<220>
<223> BAATs7 BAA signal and Ts7
<221> SIGNAL
<222> (1)...(24)
<223> BAA
<400> 26
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                -20
                                    -15
Leu Ser Ala Ser Leu Ala Ser Gly Gly Thr Lys Gly Asn Phe Pro Val
            -5
Asp Phe Gln Gly Ile Phe Tyr Glu Cys Ile Val Tyr Asn Arg Cys Glu
Arg Asp Cys Lys Leu His Gly Ser Ser Tyr Gly Tyr Cys Tyr Ala Gly
Val Cys Tyr Cys Glu Gly Leu Ala Asp Glu Asp Lys Tyr Phe Leu Gly
Met
<210> 27
<211> 64
<212> PRT
<213> Adroctonus amoreuxi
<400> 27
Val Arg Asp Gly Tyr Ile Ala Asp Ala Gly Asn Cys Gly Tyr Thr Cys
Val Ala Asn Asp Tyr Cys Asn Thr Glu Cys Thr Lys Asn Gly Ala Glu
Ser Gly Tyr Cys Gln Trp Phe Gly Arg Tyr Gly Asn Ala Cys Trp Cys
                            40
Ile Lys Leu Pro Asp Lys Val Pro Ile Lys Val Pro Gly Lys Cys Asn
```